BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE, BANGALORE-92

**Name of Work :-Detailed Estimate for The Improvements of Roads and Drains in 2nd & 3rd cross, Shanthivana in ward no. 8, Kodigehalli sub division**

**Estimated Cost :- 18.00 Lakhs**

| Sl no. | Description of item | Unit | No. | L | B/W | D/T/H | Qty. | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 1 | KSRRB 300-1. Earthwork excavation by manual means in Hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH Chapter 3 ( Page no 149, Item no. 19.1 of BCSR 2011-12) | Cum | | | | | | | |
| | Drain | | 2 | 235.00 | 0.50 | 0.45 | 105.75 | | |
| | | | 2 | 205.00 | 0.50 | 0.45 | 92.25 | | |
| | | | | | | | **198.00** | **87.05** | **17235.90** |
| | Basic Rate | 80.60 | | | | | | | |
| | Area Weightage @ 8% | 6.45 | | | | | | | |
| | **Total** | **87.05** | | | | | | | |
| 2 | Removing B.S. slab of Drain and stacking. ( Page no 28, Item no. 5.32 of BCSR 2011-12) | Sqm | | | | | | | |
| | Drain | | 2 | 235.00 | | 1.35 | 634.50 | | |
| | | | 2 | 205.00 | | 1.35 | 553.50 | | |
| | | | | | | | **1188.00** | **47.52** | **56453.76** |
| | Basic Rate | 44.00 | | | | | | | |
| | Area Weightage @ 8% | 3.52 | | | | | | | |
| | **Total** | **47.52** | | | | | | | |
| 3 | Refixing stone slabs of drains and pointing in C.M (1:3) ( Page no 28, Item no. 5.33 of BCSR 2011-12) | Sqm | | | | | | | |
| | Drain | Considering 70% of Qty vide Item no 2 | | | | | | | |
| | | | | | | | **831.60** | **59.40** | **49397.04** |
| | Basic Rate | 55.00 | | | | | | | |
| | Area Weightage @ 8% | 4.40 | | | | | | | |
| | **Total** | **59.40** | | | | | | | |
| 4 | KSRRB 300-3. Earthwork excavation and foming in embankment by manual means in **Hard Soil** with initial lead upto 15 m. and lift of 1.5m. (When earth is taken from bank cutting or from borrow pits ) including breaking of clods, spreading to required line and level, forming, and cost of all labour complete as per specifications. ( excluding watering and compaction of earth ) MORTH Chapter 3 ( Page no 149, Item no. 19.4 of BCSR 2011-12) | Cum | | | | | | | |
| | | | 1 | 235.00 | 6.65 | 0.15 | 234.41 | | |
| | | | 1 | 205.00 | 7.65 | 0.15 | 235.24 | | |
| | | | | | | | **469.65** | **120.96** | **56808.86** |
| | Basic Rate | 112.00 | | | | | | | |
| | Area Weightage @ 8% | 8.96 | | | | | | | |
| | **Total** | **120.96** | | | | | | | |
| 5 | Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. ( Page no 28, Item no. 5.31.1 of BCSR 2011-12) | Sqm | | | | | | | |
| | 7.5 cms thick | Considering 30% of Qty vide Item no 2 | | | | | | | |
| | | | | | | | **356.40** | **327.24** | **116628.34** |
| | Basic Rate | 303.00 | | | | | | | |
| | Area Weightage @ 8% | 24.24 | | | | | | | |
| | **Total** | **327.24** | | | | | | | |
| 6 | KSRRB 300-44 Scarifying top bituminous surface or surface dressing or premix carpet including picking up scarified materials, stacking of old serviceable materials within a lead of 100 metres by manual means including cost of all abour charges complete as per specifications. MORTH Chapter 3 ( Page no 155, Item no. 19.50 of BCSR 2011-12) | Sqm | | | | | | | |
| | | | 1 | 235.00 | 6.65 | | 1562.75 | | |
| | | | 1 | 205.00 | 7.65 | | 1568.25 | | |
| | | | | | | | **3131.00** | **19.33** | **60522.23** |

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|---|---|---|---|---|---|---|---|---|---|
| | Basic Rate | 17.90 | | | | | | | |
| | Area Weightage @ 8% | 1.43 | | | | | | | |
| | **Total** | **19.33** | | | | | | | |
| 7 | KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.MORTH Specification No. 406 ( Page no 166, Item no. 20.18 of BCSR 2011-12) | Cum | | | | | | | |
| | | | 1 | 235.00 | 6.65 | 0.15 | 234.41 | | |
| | | | 1 | 205.00 | 7.65 | 0.15 | 235.24 | | |
| | | | | | | | **469.65** | **1060.56** | **498092.00** |
| | Basic Rate | 982.00 | | | | | | | |
| | Area Weightage @ 8% | 78.56 | | | | | | | |
| | **Total** | **1060.56** | | | | | | | |
| 8 | KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications.MORTH Specification No. 502 ( Page no 171, Item no. 21.60 of BCSR 2011-12) | Sqm | | | | | | | |
| | | | 1 | 235.00 | 6.65 | | 1562.75 | | |
| | | | 1 | 205.00 | 7.65 | | 1568.25 | | |
| | | | | | | | **3131.00** | **40.59** | **127076.02** |
| | Basic Rate | 37.58 | | | | | | | |
| | Area Weightage @ 8% | 3.01 | | | | | | | |
| | **Total** | **40.59** | | | | | | | |
| 9 | KSRRB M500-18. Providing and laying semi dense bituminous concrete25 mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.8 complete in all respects as per specifications **25-30 mm compacted thickness with 5% bitumen 80/100 ( Grading II )** ( Page no 174, Item no. 21.20.1 of BCSR 2011-12) | Cum | | | | | | | |
| | | | 1 | 235.00 | 6.65 | 0.025 | 39.07 | | |
| | | | 1 | 205.00 | 7.65 | 0.025 | 39.21 | | |
| | | | | | | | **78.28** | **8882.32** | **695263.57** |
| | Basic Rate | 8224.37 | | | | | | | |
| | Area Weightage @ 8% | 657.95 | | | | | | | |
| | **Total** | **8882.32** | | | | | | | |
| 10 | KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.MORTH Specification No. 803 ( Page no 193, Item no. 24.15 of BCSR 2011-12) | Sqm | | | | | | | |
| | | | 2.5 | 235.00 | 0.10 | | 58.75 | | |
| | | | 2.5 | 205.00 | 0.10 | | 51.25 | | |
| | | | | | | | **110.00** | **429.84** | **47282.40** |
| | Basic Rate | 398.00 | | | | | | | |
| | Area Weightage @ 8% | 31.84 | | | | | | | |
| | **Total** | **429.84** | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|
| 11 | KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, die- cast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications ( Page no 197, Item no. 24.41 of BCSR 2011-12) | Nos | | | | | 37.00 | 290.52 | |
| | | | | | | | 25.00 | 429.84 | 10746.00 ✓ |
| | Basic Rate | 269.00 | | | | | | | |
| | Area Weightage @ 8% | 21.52 | | | | | | | |
| | **Total** | **290.52** | | | | | | | |
| 12 | Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per IRC :67 made of high intensity grade sheeting vide clause 800.1.3, fixed over Aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing complete as per specifications. | Nos | | | | | | | |
| | 60 x 60 cm square | | | | | | 6.00 | 2756.16 | 16536.96 ✓ |
| | Basic Rate | 2552.00 | | | | | | | |
| | Area Weightage @ 8% | 204.16 | | | | | | | |
| | **Total** | **2756.16** | | | | | | | |
| 13 | KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications.MORTH Chapter 1 (Page no 197, Item no. 24.41 of BCSR 2011-12) | Cum | | | | | 667.65 | 67.18 | 44852.73 |
| | | | | | | | 704.59 | 67.18 | 47334.19 ✓ |
| | Basic Rate | 62.20 | | | | | | | |
| | Area Weightage @ 8% | 4.98 | | | | | | | |
| | **Total** | **67.18** | | | | | | | |
| 14 | Miscellaneous & Unforeseen Charges | | | | | | | | 4799.27 |
| | | | | | | | | **Total** | **1800000.00** |

Technical Sanction for Rs. Qty vide item no 1 & 4
Eighteen Lakhs Only 18,00,000=00
under P-1771 PAW 11-12
(Rupees Eighteen Lakhs Only)
registered as EE No: 117 /15-5-12 Subject to conditions contained enclosed memo.
No: 117/12-13/ Dt. 15-5-12
AE/JE
EE (BTP. Div.)

Joint Commissioner (Byatarayanapura) 14/5/12

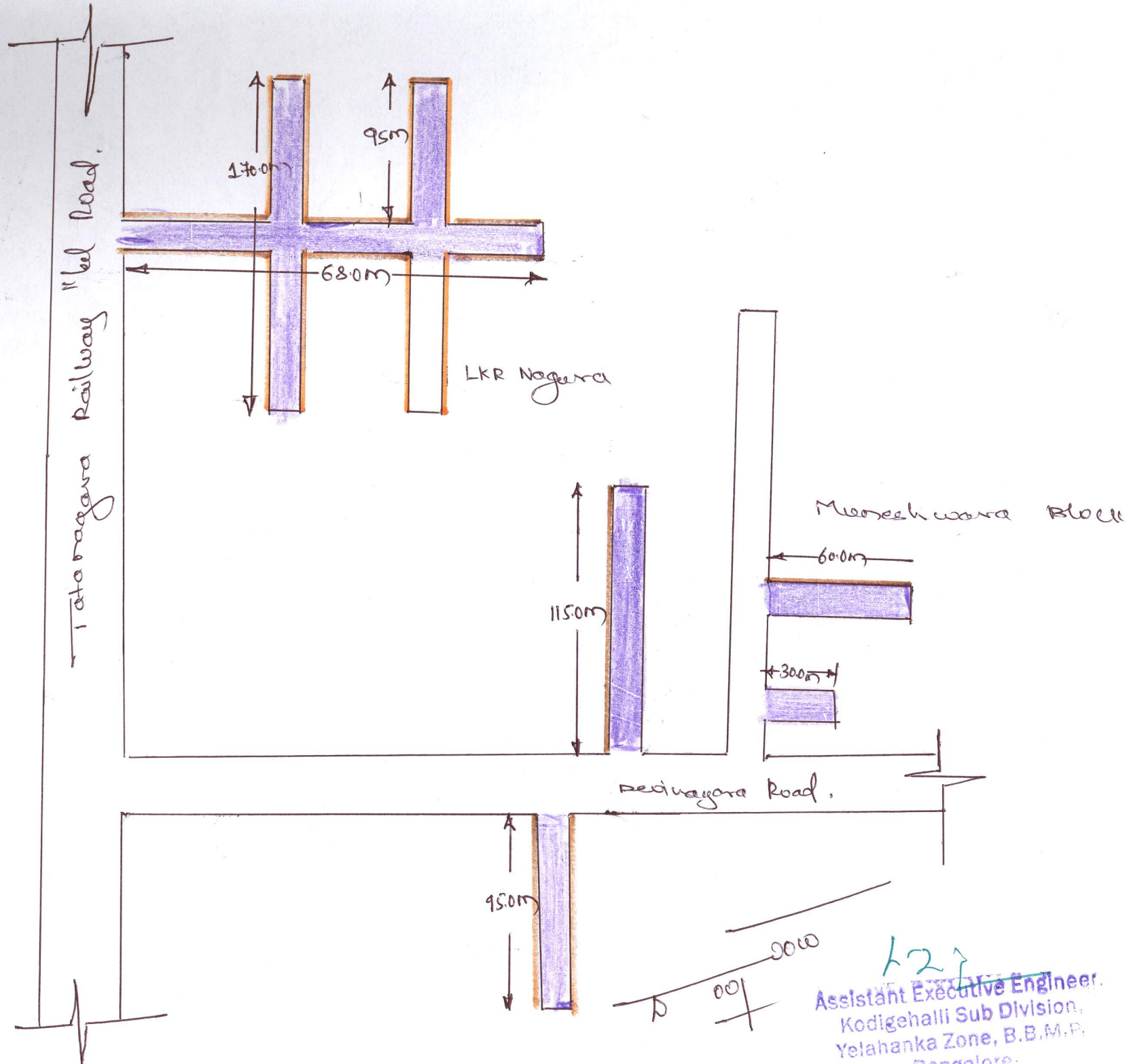
Under P-1771 POW 11-12
Registered as EE(Y) No. 12-13
Subject to conditions contained in enclosed memo EE(Y) No. 225 /12-13
Dt. 14/5/12
JC/Vol/AA/12-13 No. 225
dated 14/5/12 Rs. 18,00,000=00

1 Certified that I have personally inspected the area and prepared the estimate.
2 Certified that the work proposed in this estimate is not including in any other scheme.
3 Certified that the estimate is prepared as per 2011-12 SR of PWD.
4 This works is not split up

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Kodigehalli Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division


Tatanagara Railway Hal Road.
17.0m
9.5m
68.0m
LKR Nagara
11.5.0m
Meenakshara Block.
6.0m
3.0m
Peenagara Road.
9.5.0m
9000
12
Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.